Mr... 2P

Solving Equations: Assignment

Name: _Solutions_   Date: _____

This assignment will help provide you with an opportunity to ...

Assessment

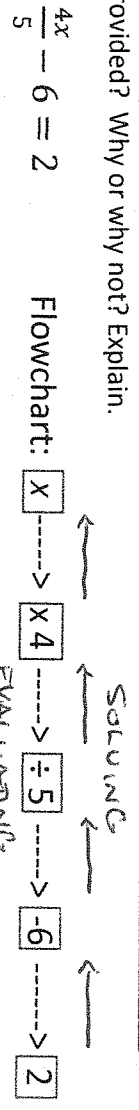| Still Learning...	Almost There...	Got It!

Answer each of the following questions in the space provided. Show the steps to your solution, keeping your work organized.

Part A-Knowledge & Understanding

1. For the equations listed in the table below, describe ONE STEP (or operation) that you would do to solve each one. IMPORTANT: You do not need to solve the equations at this time.

Equation	One Step (or Operation) You Would Use to Solve
a) $\frac{x}{5} + 6 = 10$	Subtract 6, multiply by 5
b) $-1.5x + 2 = -1$	subtract 2, divide by -1.5
c) $\frac{1}{3}(x + 4) = 7$	multiply by 3, subtract 4
d) $6(x - 2) = 3x$	expand the 6 into $(x-2)$, get the x-terms to one side

2. Consider the arrow diagram that has been used to organize the steps to solving the equation below. Do you agree with the steps that have been provided? Why or why not? Explain.

$$\frac{4x}{5} - 6 = 2$$

Flowchart: $\boxed{x}$ --→ $\boxed{\times 4}$ --→ $\boxed{\div 5}$ --→ $\boxed{-6}$ --→ $\boxed{2}$

(EVALUATING)   (SOLVING)   (distribute)

No. These steps would work if you already knew the value of x, were substituting it into the expression, and evaluating. To solve, the flowchart should go the other way (see above).